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Attorney Docket No. FM-10-US  
Serial No.: 10/517,904IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Jianhua Feng et al.

Examiner: Sheridan R. Macauley

Serial No.: 10/517,904

Group Art Unit: 1651

Confirmation No: 4693

Filed: December 10, 2004

Docket No.: FM-10-US

Title: PURIFIED PKB SER 473 KINASE AND USES THEREOF

PROPOSED DRAFT AMENDMENTS FOR ALLOWANCE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Madam:

This response is provided in response to the Final Office Action mailed December 30, 2009. Applicants respond as follows:

**Amendment to the Claims** begin on page 2.

**Remarks** begin on page 6.

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Attorney Docket No. FM-10-US  
Serial No.: 10/517,904AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

Claim 1. (Cancel) A cell-free composition comprising a complex which has PKB Ser 473 kinase activity and an apparent molecular weight of 450-650 kDa.

Claim 2. (Cancelled)

Claim 3. (Cancel) The cell-free composition of claim 1, wherein said complex comprises a protein having a molecular weight of 48kDa as estimated by SDS gel electrophoresis.

Claim 4. (Cancel) The cell-free composition of claim 1, wherein said complex comprises a protein having a molecular weight of 58kDa as estimated by SDS gel electrophoresis.

Claim 5. (Currently amended) A purified PKB Ser 473 kinase protein complex, which has PKB Ser 473 kinase activity and an apparent molecular weight of 450-650 kDa when fractionated by gel filtration chromatography, wherein the purified PKB Ser 473 kinase complex has been purified from a cell-free extract that has measurable PKB Ser 473 kinase activity in 0.2 µg of protein when detected in a kinase assay in which a PKB peptide substrate is phosphorylated with <sup>32</sup>P labeled phosphate, wherein the purified PKB Ser 473 kinase complex elutes with an apparent molecular weight of 450-650 kDa when fractionated by gel filtration chromatography and the measurable PKB Ser 473 kinase activity in the cell-free extract is at least 2000 times greater than a PKB Ser 473 kinase activity in a crude cell extract, wherein the kinase activities are measured using the kinase assay.

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**Claim 6. (Cancelled)**

**Claim 7. (Currently amended)** A purified cell extract that has measurable PKB Ser 473 kinase activity in 0.2  $\mu$ g of protein when detected in a kinase assay in which a PKB peptide substrate is phosphorylated with  $^{32}$ P label[[l]]ed phosphate, wherein [[the]] a kinase complex elutes with an apparent molecular weight of 450-650 kDa when fractionated by gel filtration chromatography and the measurable PKB Ser 473 kinase activity in the purified cell extract is at least 2000 times greater than ~~a specific activity of a~~ PKB Ser 473 kinase activity in a crude cell extract, wherein the kinase activities are measured using the kinase assay.

**Claim 8. (Currently amended)** The purified cell extract of claim 7, wherein the kinase complex elutes with an apparent molecular weight of 550 kDa when fractionated by gel filtration chromatography.

**Claim 9. (Cancelled)**

**Claim 10. (Withdrawn)** A method for producing antibodies which selectively bind to a purified PKB Ser 473 kinase protein comprising the steps of:

- i) administering an immunogenically effective amount of a PKB Ser 473 kinase immunogen to an animal;
- ii) allowing the animal to produce antibodies to the immunogen; and
- iii) obtaining the antibodies from the animal or from a cell culture derived therefrom.

**Claim 11. (Withdrawn)** APKB Ser 473 kinase-specific antibody.

**Claim 12. (Withdrawn)** A method of screening for a potential modulator of PKB Ser 473 kinase activity comprising the steps of:

- i) incubating the purified PKB Ser 473 kinase protein of claims 5 or 6 with a compound;

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FAX COVER SHEET

Date: 3/23

To: Sheridan ~~Macaulay~~ Macaulay

Fax Number: 1-571-273-8300

From: Jay Pattumudi

Re:

Message: Proposed draft of amendments

for 10/517, 904 FM-10  
conf. no. 4693

Total pages sent (including cover sheet):

3

Art Unit 1651

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I amended claim 5 to  
include limitations of  
claim 7. also

corrected for  
minor typos such as  
labelled.

~~check for~~

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